

ABSTRACT

A linear motor including a plurality of movers (1a to 1c), each of which is formed with an armature having a polyphase balancing winding (Ru to Rw), and a stator having a permanent magnet or a secondary conductor is configured such that the plurality of movers (1a to 1c) are disposed on the single stator; and the polyphase balancing windings (Ru to Rw) in the respective movers (1a to 1c) are connected in series. Accordingly, there can be obtained an inexpensive linear motor which is capable of driving a large machine, which is capable of canceling cogging force, which offers facilitated assembly of movers, and which can provide thermal protection of the movers with ease.